

# Receiving Report

Date: 11/11/25

Batch No: M119761

Supplier: M/PAU & Co. T/Ve

Dart P/O: 15400

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☐  
 Work Order M/PAU 11-11-30 N/A ☒


## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 11/11/25  
 Date [Signature]  
 Received/Costing [Signature]  
 Initial [Signature]

Location

<b>Remit To</b> A.M. CASTLE & CO. (CANADA) INC. - B9204 P.O. BOX 9100 TORONTO ONTARIO M4Y 3A5 CANADA		<b>RECEIVED NOV 23 2011</b> <b>INVOICE</b>  <b>Castle Metals®</b> A. M. Castle & Co	
<b>Invoice No.</b>	20068260		
<b>Invoice Date</b>	11/16/2011		
<b>Account No.</b>	50676 DART AEROSPACE LTD		

<b>Bill To</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY ON K6A 1K7 CANADA	<b>Ship To</b> METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE QC J7R 5A8 CANADA
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**TERMS AND CONDITIONS OF SALE  
CUSTOMER NOTICE**

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY  
THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING ANY REGARDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT AS EXPLICITLY STATED ON THE ACKNOWLEDGEMENT PROVIDED BY A.M. CASTLE & CO. OR ITS AFFILIATES ("CASTLE" HEREFTER).

LIABILITY FOR THE BREACH OF ANY WARRANTY IS LIMITED TO REPLACEMENT OF DEFECTIVE OR NONCONFORMING GOODS OR TO THE REFUND OF THE PURCHASE PRICE UPON RETURN OF THE GOODS TO CASTLE, AT THE OPTION OF CASTLE. CASTLE IS NOT LIABLE FOR ANY OTHER DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, EVEN IF CASTLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. CUSTOMER ASSUMES ALL RISKS AND LIABILITY FOR LOSS, DAMAGE OR INJURIES TO PERSONS OR PROPERTY OF CUSTOMER OR OTHERS ARISING OUT OF THE USE OR POSSESSION OF THE GOODS.

Acceptance of your order by Castle is conditional upon your agreement to the terms and conditions. If you do not agree, all goods must be promptly returned to Castle, unused and unopened. Your acceptance of delivery of any part of the goods covered by this document will be deemed an agreement to the terms and conditions of sale which are contained on this document. Any inconsistent or additional terms or conditions which may be contained in your purchase order, confirmation, or other document, are objected to by Castle.

<b>Invoice No.</b>	20068260	<b>Payment Terms</b>	1% 10, NET 30	<b>Date Shipped</b>	11/16/2011
<b>Invoice Date</b>	11/16/2011	<b>Due Date</b>	16-DEC-2011	<b>Shipped Via</b>	CASTLE_NETWORK
<b>Discount on Material &amp; Labor</b>	1.19 Discount if paid by 11/26/2011			<b>Salesperson</b>	Desbiens, Marc

Shipment Description	Shipment Information	Shipped Quantity / Unit Price	Amount CAD
<b>Purchase Order #:</b> Order # - Line #: Ordered: Item Description: Heat Number(s): Specification(s):	<b>15400</b> 1815191-2 12 FT 14963 0.6250.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 G18148 AMS 5643	12.48 LBS 12.0000 FT \$4.36 / FT	\$52.32 ✓
<b>Purchase Order #:</b> Order # - Line #: Ordered: Item Description: Heat Number(s): Specification(s):	<b>15400</b> 1815191-3 12 FT 14966 0.7500.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 G17894 AMS 5643	18 LBS 12.0000 FT \$5.57 / FT	\$66.84 ✓

**Line Total:** \$119.16

138353438 RT GST  
1016813512 QST

5% Tax 5.95

**Taxes:** \$5.95

**Invoice Total:** \$125.11

**Remit Currency:** CAD

**CUSTOMER IS RESPONSIBLE FOR ALL SHIPPING DOCUMENTS AND COMPLIANCE WITH ALL UNITED STATES LAWS INCLUDING BUT NOT LIMITED TO U.S. EXPORT LAWS AND REGULATIONS.**

ENTERED NOV 30 2011

**PAID**

DEC 01 2011

9755

## Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO15400 Receipt Dates from 11/25/2011 to 11/25/2011

All Item ID/GL/WOs	All Rec. Employees	All Currencies

Grouped by Vendor ID

[illegible]

**Castle Metals®**

A. M. Castle &amp; Co.

**BORDEREAU DE MARCHANDISES**

Page 1 of 1

No de Formulaire d'Emballage / Pack Slip No:845712

<b>Expédié de / Ship From:</b> A. M. Castle & Co. Chicago 3400 North Wolf Road Franklin Park, IL 60131		<b>Vendu à / Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Expédié à / Ship To:</b> METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		<b>Livré à / Deliver To:</b> METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	
<b>Date d'expédition / Date Shipped</b>	<b>F.O.B.</b>	<b>Modalités de transport / Freight Terms</b>	<b>Transporteur / Carrier</b>	<b>No du Bon de connaissance / BOL No</b>	<b>N° de livraison / Delivery No</b>		
16-NOV-2011	ORIGIN	Prepaid	CASTLE_NETWORK K	850385	103661320		

**Détails d'expédition / Shipment Details**

N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description
1815191	3	14966	4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 SPECIFICATIONS: AMS 5643
<b>N° de bon de commande / Purchase Order No</b>		<b>Nbre de pièces / Part Number</b>	<b>Qté commandée / Ordered Qty</b>
15400			12.00 FT

Détails / Details			
Usine / Mill	No de coulee / Heat Number	Code mec / Mech Id	Pièces / PCS
TALLEY METALS, INC.	G17894		

Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty (LBS)
12 FT	18

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications énumérées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms to the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par  
Reviewed by Authorized Castle Metals Representative:

Date:

Name:

**Castle Metals®****BORDEREAU DE MARCHANDISES**

A. M. Castle &amp; Co.

Page 1 of 1

No de Formulaire d'Emballage / Pack Slip No:845712

<b>Expédié de / Ship From:</b> A. M. Castle & Co. Chicago 3400 North Wolf Road Franklin Park, IL 60131		<b>Vendu à / Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Expédié à / Ship To:</b> METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		<b>Livré à / Deliver To:</b> METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	
<b>Date d'expédition / Date Shipped</b>	<b>F.O.B.</b>	<b>Modalités de transport / Freight Terms</b>	<b>Transporteur / Carrier</b>	<b>No du Bon de connaissance / BOL No</b>	<b>N° de livraison / Delivery No</b>		
16-NOV-2011	ORIGIN	Prepaid	CASTLE_NETWORK K	850385	103661320		

<b>Détails d'expédition / Shipment Details</b>		<b>Destination finale / Final Destination Branch -</b>	
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<b>N° de commande / Order No</b>	<b>N° de ligne / Line No</b>	<b>N° d'article / Item No</b>	<b>Description</b>
1815191	2	14963	ORD. 1 [REDACTED] NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 SPECIFICATIONS: AMS 5643
<b>N° de bon de commande / Purchase Order No</b>	<b>Nbre de pièces / Part Number</b>	<b>Qté commandée / Ordered Qty</b>	<b>Qté Facturée / Invoice Qty</b>
15400		12.00 FT	12 FT
<b>Détails / Details</b>			
<b>Usine / Mill</b>	<b>No de coulee / Heat Number</b>	<b>Code mec / Mech Id</b>	<b>Pièces / PCS</b>
TALLEY METALS, INC.	[REDACTED]	[REDACTED]	[REDACTED]
		<b>Largeur (Pouce) / Width (IN)</b>	<b>Longueur (Pouce) / Length (IN)</b>
		[REDACTED]	[REDACTED]
			<b>Qté expédiée / Shipped Qty (LBS)</b>
			12.48

Nous certifions par la présente que le matériel soumis par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.  
We hereby certify the material covered by this certification conforms to the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par Reviewed by Authorized Castle Metals Representative:		Date:	Name:
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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO15400

Purchase Order Date 11/08/11

PO Print Date 11/08/11

Page Number 1 of 2

Order From :

VC-MET001

METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100  
TORONTO, ON M4Y 3A5  
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

11/11/08

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
3	M174PH-H900R0.625	17-4 SS H900 ROUND BAR 0.625	11/18/11 Yes	12.00 f	Yours ppd	\$4.3600	\$52.32

Special Inst:

MATERIAL: 17-4 PH COND. H900  
AS PER AMS 5643

NOTE:

PLEASE SHIP MATERIAL TO METCOR  
INC.

560 BOULV. ARTHUR SAUVE  
SAINT-EUSTACHE, QC

J7R-5A8  
450-473-1884

11/11/25

4	M174PH-H900R0.750	17-4 SS H900 ROUND BAR 0.750"	11/18/11 No	12.00 f	Yours ppd	\$5.5700	\$66.84
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Change Nbr: 2

Change Date: 11/08/11

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15400**

Purchase Order Date 11/08/11

PO Print Date 11/08/11

Page Number 2 of 2

Order From : VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100  
TORONTO, ON M4Y 3A5  
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone 514 694 9575	Requisition Nbr	
Vendor Fax 514 695 3281	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	Destination-Collect

Special Inst: MATERIAL: 17-4 PH COND. H900  
AS PER AMS 5643

NOTE:  
PLEASE SHIP MATERIAL TO METCOR  
INC.  
560 BOULV. ARTHUR SAUVE  
SAINT-EUSTACHE, QC  
J7R-5A8  
450-473-1884

5	D6104-005P	17-4 SS Roundbar 4.00"OD	11/18/11	✓ 12.00	Yours ppd	\$76.0000	\$912.00
			Yes	Each			

Special Inst: AS PER DWG D6104 REV. B  
B76308  
MATERIAL: 17-4PH AS PER AMS 5643  
OR AISI 630  
SIZE: 4.00" X 5.10" LONG

PO Total: \$1,031.16

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

Change Nbr: 2

Change Date: 11/08/11

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

# CERTIFICATE OF TESTS

# ABNAHMEPRUEFZEUGNIS

# CERTIFICAT DE CONTROLE

CERT SERIAL# 000784493



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.

205 Talley Metals Lane

McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

07/21/11

CUSTOMER / BESTELLER / CLIENT

A.M. CASTLE & CO

3400 N WOLF RD

FRANKLIN PARK IL 60131

HVL

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
101105-003	W92036	07/21/11	1297.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE SOLUTION ANNEALED COLD FINISH  
PART NUMBER: IAC 14966

SPECIFICATION: CASTLE 3174-03 REV 23 (12/14/10)  
AMS 2303 REV F (08/ /10)  
AMS 5643 REV R (02/ /08) (UNS S17400) (AISI 630)  
ASTM-A564-10  
ASME-SA564 2010 EDITION

SIZE 1.0 IN. ( 19.05 MM) RD BAR

PRIMARY HEAT CHEMISTRY (WT%) : (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.03	0.86	0.36	0.022	0.026	15.30

NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.27	0.20	3.60	0.033	0.26	LT .01

CB+TA  
0.27

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES  
NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 36:1

MILL HEAT TREATMENT:

TYPE ANNEAL  
TEMP 1900F ( 1037C)  
TIME (BATCH FURNACE) 1.50 HOURS  
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW - 279 (MIDRADIUS)

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE .43%

CONTINUED ON NEXT PAGE

# CERTIFICATE OF TESTS

# ABNAHMEPRUEFZEUGNIS

# CERTIFICAT DE CONTROLE

CERT SERIAL# 000784493



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.

205 Talley Metals Lane

McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

07/21/11

CUSTOMER/BESTELLER/CLIENT

A.M. CASTLE & CO

3400 N WOLF RD

FRANKLIN PARK IL 60131

SELLER/VERKÄUFER/VEHDEURPAGE 2 OF 2

HVL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
101105-003	W92036	07/21/11	1297.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :  
CAPABILITY

G17894

UNS NUMBER S17400

900 F ( 482 C ), 01 HR

AIR COOL

(T) RANSVERSE (L) ONGITUDINAL  
YIELD STRENGTH, (0.20 %) KSI (MPA)  
TENSILE STRENGTH, KSI (MPA)  
ELONGATION IN 1.40", %  
REDUCTION OF AREA, %  
HARDNESS, HBW

L  
206.0 ( 1420 )  
209.0 ( 1441 )  
12.0  
47.0  
413.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED  
MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.  
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-  
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,  
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.  
WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE  
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS  
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM  
QUALITY ASSURANCE ENGINEER  
CARPENTER TECHNOLOGY CORPORATION

*Stephanie E. McCullum*

**Castle Metals FP**

HEAT NUMBER                       
MECHANICAL ID                       
ITEM CODE 14966  
LOT NUMBER                       
PO NUMBER 101105  
RECEIPT DATE 7/27/11  
SUPPLIER Talley  
SPECIFICATION                       
LCS NO  
COMMENT                       
APPROVED BJ

**CERTIFICATE OF TESTS**  
CERT SERIAL# 000788394

**ABNAHMEPRUEFZEUGNIS**

**CERTIFICAT DE CONTROLE**



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

09/02/11

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

A.M. CASTLE & CO

TALLEY METALS TECH, INC.

3400 N WOLF RD  
FRANKLIN PARK IL 60131

ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE SC 29551

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE

CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE

DATE / DATUM / DATE

WEIGHT / GEWICHT / POIDS

109403-002

W95858

09/02/11

1839.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE SOLUTION ANNEALED COLD FINISH  
----- PART NUMBER: IAC 14963

SPECIFICATION: CASTLE 3174-216 REV 2 (12/15/10)  
----- AMS 2303 REV F (08/ /10)  
AMS 5643 REV R (02/ /08) (UNS S17400) (AISI 630)  
ASTM-A564-10  
ASME-SA564 2010 EDITION

SIZE 0 IN. ( 15.88 MM) RD BAR

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.03	0.79	0.34	0.020	0.029	15.20
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.27	0.26	3.75	0.028	0.23	LT .01

CB+TA  
0.24

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES  
NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 52:1

MILL HEAT TREATMENT:

TYPE SOL ANL  
TEMP 1900F ( 1037C)  
TIME (BATCH FURNACE) 1.50 HOURS  
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW - 304 (MIDRADIUS)

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE .75%

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.  
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.  
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

**CERTIFICATE OF TESTS**  
CERT SERIAL# 000788394

**ABNAHMEPRUEFZEUGNIS**

**CERTIFICAT DE CONTROLE**



**TALLEY METALS**  
**A Carpenter Company**

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
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09/02/11

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

A.M. CASTLE & CO

TALLEY METALS TECH, INC.

3400 N WOLF RD  
FRANKLIN PARK IL 60131

ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
109403-002	W95858	09/02/11	1839.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :  
CAPABILITY

G18148

UNS NUMBER S17400

900 F( 482 C), 01 HR

AIR COOL

(T)RANSVERSE (L)ONGITUDINAL	L
YIELD STRENGTH, (0.20 %) KSI(MPA)	213.0( 1469)
TENSILE STRENGTH, KSI(MPA)	215.0( 1482)
ELONGATION IN 1.40", %	13.0
REDUCTION OF AREA, %	48.0
HARDNESS, HBW	423.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED  
MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.  
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-  
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,  
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.  
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS  
OPERATIONS QUALITY PROGRAM MANUAL, REVISION 29 DATED 09/01/10.

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE  
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS  
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204(DIN50049)

**Castle Metals FP**

STEPHANIE E. MCCULLUM  
QUALITY ASSURANCE ENGINEER  
CARPENTER TECHNOLOGY CORPORATION

HEAT NUMBER                       
MECHANICAL ID                       
ITEM CODE 14963  
LOT NUMBER                       
PO NUMBER 109403-002  
RECEIPT DATE 9/6/11  
SUPPLIER Talley  
SPECIFICATION                       
LCS N0  
COMMENT                       
APPROVED 135

*Stephanie McCullum*

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